

IN THE CLAIMS

1-14. (Cancelled).

15. (Currently Amended) An electron-emitting device comprising:
a first electrically conductive film;
a second electrically conductive film; and
a carbon film for emitting electrons disposed to cover at least a part
of said first electrically conductive film,
wherein when an electrically conductive probe of an Atomic Force
Microscope contacts a portion of said carbon film positioned over said first electrically
conductive film, a resistivity of said carbon film measured in a direction from said probe
toward said first electrically conductive film is not larger than 0.001 Ωm .

16. (Previously Presented) The device according to claim 15, wherein
said carbon film has an amorphous structure or a graphite structure.

17. (Previously Presented) The device according to claim 15, wherein
said carbon film has a gap at a part thereof, said first electrically conductive film is
connected to a first end of said carbon film, and said second electrically conductive film is
connected to a second end of said carbon film.

18. (Previously Presented) The device according to claim 17, wherein
the first end of said carbon film is connected through said first electrically conductive film
to a first electrode, and the second end of said carbon film is connected through said
second electrically conductive film to a second electrode.

19. (Previously Presented) The device according to claim 18, wherein the gap is disposed between said first and second electrically conductive films, said carbon film is disposed between said first and second electrically conductive films and on said first and second electrically conductive films.

20. (Previously Presented) The device according to claim 15, wherein said first and second electrically conductive films have a resistance of 1×10^2 to 1×10^7 Ω/\square .

21. (Previously Presented) The device according to claim 18, wherein a material of said first and second electrodes includes Pt.

22. (Previously Presented) An electron source comprising a plurality of electron-emitting devices, wherein each electron-emitting device is an electron-emitting device according to claim 15.

23. (Currently Amended) An image forming apparatus comprising an electron source and an image forming member, wherein said image forming member displays an image when electrons from the electron-emitting devices of the electron source irradiate said image forming member, and said electron source is an electron source according to claim 22.

24. (New) A television comprising:
(A) a display panel with a screen including the image forming apparatus according to claim 23;
(B) a TV signal receiving circuit for receiving a TV signal; and

(C) a drive circuit for displaying an image on the screen according to the TV signal.

25. (New) An image forming device comprising:

(A) a display panel with a screen including the image forming apparatus according to claim 23;

(B) an interface for receiving image signals; and

(C) a drive circuit for displaying an image on the screen according to the image signals.

26. (New) The image forming device according to claim 25, further comprising a TV signal receiving circuit for receiving the TV signal,

wherein said drive circuit is also for displaying an image on the screen according to the TV signal.

27. (New) An image forming device comprising:

(A) a display panel with a screen including the image forming apparatus according to claim 23;

(B) an interface for receiving and outputting image signals; and

(C) a drive circuit for displaying an image on the screen according to the image signals.

28. (New) The image forming device according to claim 27, wherein said interface can be connected to at least one of a computer, a computer network, printer and an image memory device.

29. (New) The image forming device according to claim 28, wherein the image memory device is a device selected from a TV camera, a video recorder and an image disc.